

MD 4 IS ASSUMED TO RUN  
IN NORTH-SOUTH DIRECTION

#### EXISTING SIGNALS

1-3,6,8 4,5,10, 11,13,15 12,14

#### PROPOSED LED SIGNALS

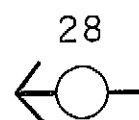
7,9

12"

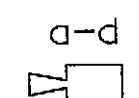
12"

12"

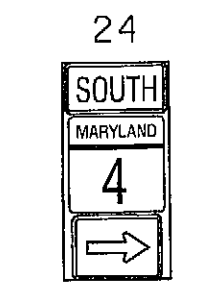
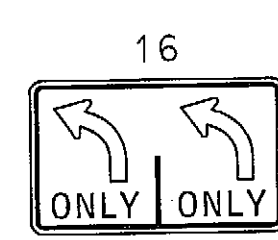
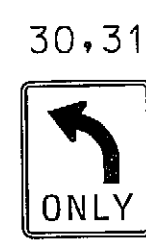
#### EXISTING OPTICOM DETECTOR



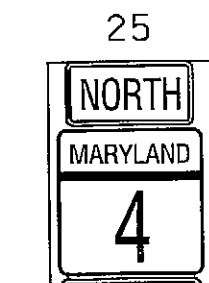
#### EXISTING CAMERA



#### PROPOSED SIGNS



Shield Assem.  
24\" x 51\"



Shield Assem.  
36\" x 75\"



Shield Assem.  
36\" x 75\"

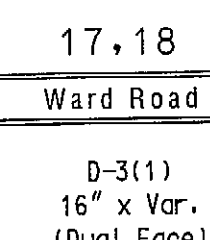


Shield Assem.  
24\" x 51\"

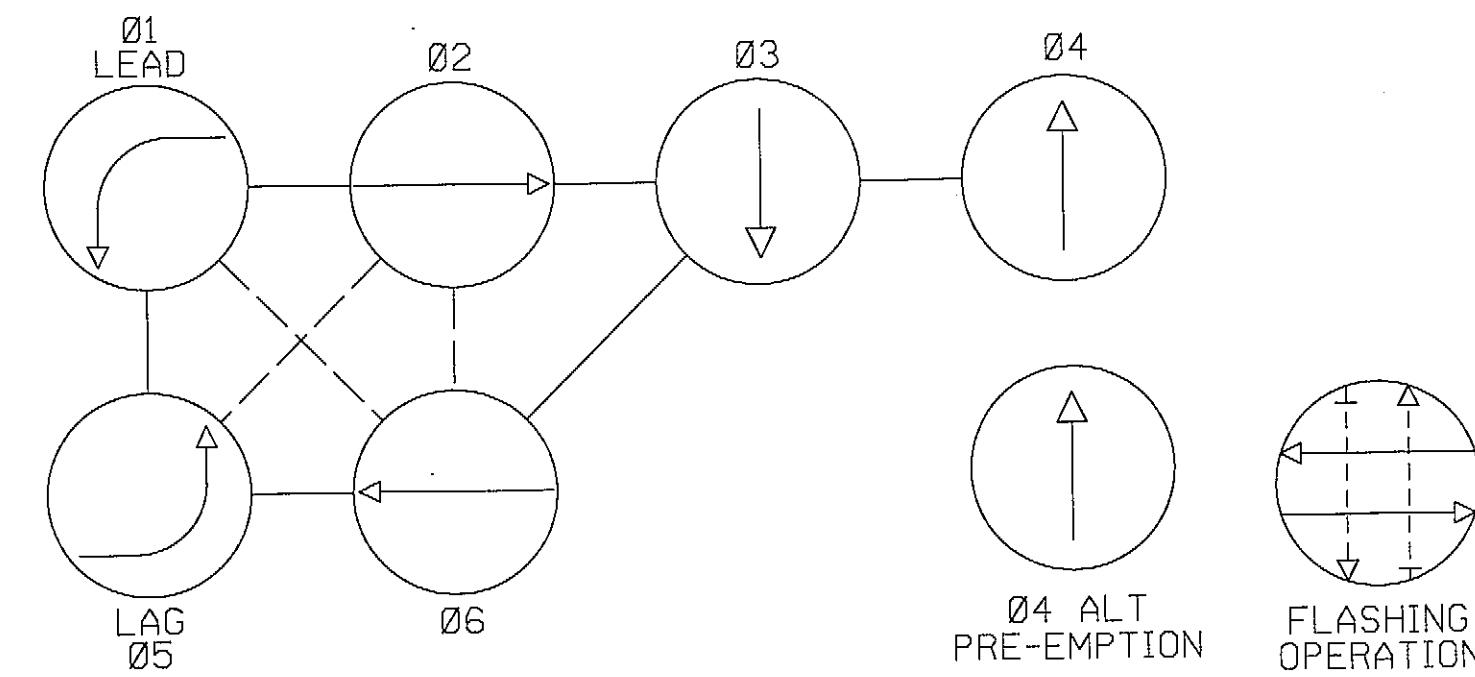


Shield Assem.  
36\" x 75\"

#### EXISTING SIGNS



#### NEMA PHASING



NOTE:  
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

#### GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSA STANDARD PLATES FOR TRAFFIC CONTROL.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING AND VIDEO PROGRAMMING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSA STANDARDS.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- PROPOSED GEOMETRIC MODIFICATIONS (ROADWAY WIDENING, MEDIAN CONSTRUCTION, PEDESTRIAN RAMP, AND DETECTABLE WARNING SURFACES) WILL BE CONSTRUCTED BY OTHERS. THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR AS NECESSARY.
- THE CONTRACTOR SHALL REMOVE ALL ABANDONED ELECTRICAL CABLE.
- VIDEO CAMERA LOCATION ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.

#### UTILITY LEGEND

SD	SD	STORM DRAIN
G	G	GAS MAIN
W	W	WATER MAIN
S	S	SEWER MAIN
E	E	ELECTRIC CABLES
A	A	AERIAL CABLES
T	T	TELEPHONE CABLES
F	F	FIBER-OPTIC

#### LENHART TRAFFIC CONSULTING

TRAFFIC ENGINEERING & TRANSPORTATION PLANNING

331 Redwood Grove Court Millersville, Maryland 21108  
Tel: (410) 987-3888 Fax: (443) 782-2288

#### CONSTRUCTION DETAILS

- INSTALL ELECTRICAL HANDHOLE
- INSTALL NEW VEHICULAR TRAFFIC SIGNAL HEAD
- INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
- USE EXISTING ELECTRICAL HANDHOLE
- USE EXISTING ELECTRICAL CONDUIT
- USE EXISTING CABINET
- EXISTING MICROLOOP PROBE TO BE ABANDONED
- INSTALL NON-INVASIVE MICROLOOP PROBE SET
- INSTALL OVERHEAD SIGN
- INSTALL 24 INCH HEAT-APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (FOR STOP LINE)
- REMOVE EXISTING HANDHOLE
- EXISTING HANDHOLE TO BE REMOVED BY ROADWAY EXCAVATION
- INSTALL 20 FT. BREAKAWAY PEDESTAL POLE WITH TRAFFIC SIGNAL HEAD AND SIGN (NOTE 1-3 IN. PVC 90 DEGREE BEND)

#### NOTE:

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

EAPD PERMIT NO. 10-AP-CA-003

**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 4 (SOLOMONS ISLAND ROAD) AT  
WARD ROAD

#### SIGNALIZATION PLAN SHEET

SCALE 1"=20' DATE CONTRACT NO. BW-467-802-512

DESIGNED BY J. DIRNDORFER COUNTY CALVERT  
DRAWN BY J. DIRNDORFER LOGMILE 04000433.11  
CHECKED BY J. DIRNDORFER TMS NO. L280  
F.A.P. NO. N/A TOD NO.

TS NO. 3171D DRAWING SG-01 OF 02 SHEET NO. OF

#### APPROVALS

TEAM LEADER

ASSY. DIV. CHIEF

DIVISION CHIEF

OFFICE DIRECTOR

#### REVISIONS

①	ADDED SECOND SOUTHBOUND LEFT TURN LANE ON MD 4	9/2013
LTC	MD 4	BW996M82
C	RECONSTRUCT TRAFFIC SIGNAL DUE TO GEOMETRIC CHANGE	11/2/2005
FJH	JES	
B	REMOVE FIREHOUSE SIGNAL	1/23/2003
FJH		

#### GEOMETRIC LEGEND

EXISTING  
PROPOSED